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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/828,462	04/06/2001	Michael Comer	3184	6911

7590 06/20/2005
Niro, Scavone, Haller & Niro
181 W. Madison-Suite 4600
Chicago, IL 60602

EXAMINER

EBRAHIMI DEHKORDY, SAEID

ART UNIT PAPER NUMBER

2626

DATE MAILED: 06/20/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/828,462

Applicant(s)

COMER ET AL.

Examiner

Saeid Ebrahimi-dehKordy

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 18 January 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-3 and 6-15 is/are rejected.
- 7) ☒ Claim(s) 4&5 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

Response to Amendment

1. Applicant's arguments with respect to claim 1-9 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claim 1-3 and 6-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Venkatraman et al (U.S. patent 6,170,007) in view of Thielman et al (U.S. patent 6,296,353) and further in view of Skaanning (Pub. No.: US 20020044296)

Regarding claim 1 and 9 Venkatraman et al disclose: Internet hardware and software for providing the print engine with Internet connectivity (please note Fig.5 item 10 the printer and the item 100 the internet, also please note Fig.1B the printer comprising web page server item 18 and device –specific hardware and software embedded in the processor, column 4 lines 22-32 and column 4 lines 65-67 and column 5 lines 1-3) including a microprocessor communicating with the printer hardware and software (please note Fig.1B items 200 the processor, item 300 the hardware and the software embedded in the processor, column 4 lines 21-29) the microprocessor comprising an embedded Internet server having a valid IP address (please note Figs.1A&B, column 3 lines 21-45). However Venkatraman et al do not disclose: An ink jet print engine with Internet connectivity, comprising: printer hardware and software

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providing a functioning printer, including a piezoelectric printhead for dispensing ink onto a substrate. On the other hand Thielman et al disclose: An ink jet print engine with Internet connectivity, comprising: printer hardware and software providing a functioning printer, including a piezoelectric printhead for dispensing ink onto a substrate (please note Fig.1, column 4 lines 43-56). said printer hardware or software capable of providing diagnostic information concerning said printer and which is transmittable over the Internet (please note page 5 paragraph 0058 where the printer 210 communicates over the internet 202 to the diagnostic system 201 of Fig.1). Therefore it would have been obvious to a person of ordinary skill in art at the time of the invention to modify Venkatraman et al's invention according to the teaching of Thielman et al, where Thielman et al teach the way piezoelectric print head which is part of the printer which connects to the internet as in the case of Venkatraman et al's is used instead for purpose of optimizing the printer, while Skaanning is further teach the connection of the printer of Venkatraman et al's to the internet for the purpose of making the connection to the diagnostic web server in the internet.

Regarding claim 2 Venkatraman et al disclose: The ink jet print engine of claim 1, wherein the printer software stores one or more valid IP addresses of servers corresponding to maintenance or service centers for one or more components of the print engine (please note column 7 lines 8-17 where the address or URL of for example service contract also note column 4 lines 9-20).

Regarding claim 3 Skaanning discloses: The ink jet print engine of claim 2, wherein the said diagnostic information is transmitted between at least one of said

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servers and said one of more component (please note Skaanning, page 5 paragraph 0060 where the printer components through the print server 209 and and web server 200 communicate).

Regarding claim 6 Venkatraman et al disclose: The ink jet print engine of claim 1, wherein said microprocessor contains cache, I/O, real time operating systems, device driver software and communications protocol software. (please note column 4 lines 65-67 and column 5 lines 1-3).

Regarding claim 7 Venkatraman et al disclose: The ink jet print engine of claim 1, wherein the printer comprises integrated networking software (please note column 4 lines 65-67 and column 5 lines 1-3).

Regarding claim 8 Venkatraman et al disclose: The ink jet print engine of claim 1, wherein the microprocessor uses an RTOS operating system (please note column 4 lines 59-64).

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claim 10-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Venkatraman et al (U.S. patent 6,170,007) in view of Skaanning (Pub. No.: US 20020044296)

Regarding claim 10 Venkatraman et al A printer device comprising: printer hardware and software for performing a print function and printer diagnostics (please

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note column 4 lines 9-20 where the printer hardware 300 and web page 18 which would record the printer functions) a processor contained in said printer device (please note Fig.1B item 220 the processor) Internet connection hardware and software said Internet connection hardware and software presenting a valid Internet address for said printer device to the Internet (please note column 3 lines 21045) However Venkatraman et al do not disclose: said printer software also reporting printer diagnostics over the Internet using said Internet address. On the other hand Skaanning discloses: printer software also reporting printer diagnostics over the Internet using said Internet address (please note page 5 paragraph 0058 where the printer 210 communicates over the internet 202 to the diagnostic system 201 of Fig.1). Therefore it would have been obvious to a person of ordinary skill in art at the time of the invention to modify Venkatraman et al's invention according to the teaching of Skaanning, where Skaanning in the same filed of endeavor teaches goes a step further by communicating with the internet for the purpose of reporting the diagnostic of the printer and getting back ways to correct them.

Regarding claim 11 Venkatraman et al disclose: the printer device of Claim 10 further comprising an Ethernet hardware and software interface (please note column 4 lines 26-32).

Regarding claim 12 Venkatraman et al disclose: The printer device of Claim 10, wherein said microprocessor gathers statistics concerning said printer device (please note column 4 lines 22-32) Regarding claim 13 Skaanning discloses: The printer device of Claim 12 further comprising said Internet connection hardware and software reporting said statistics over the Internet (please note page 5 paragraph 0058).

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Regarding claim 13 Skaanning discloses: the printer device of claim 12 further comprising said internet connection hardware and software reporting said statistics over the internet (note page 5 paragraph 0058).

Regarding claim 14 Venkatraman et al disclose: The printer device of Claim 10, further comprising said printer device acting as an independent Internet server (please note column 4 lines 13-18).

Regarding claim 15 Venkatraman et al disclose: The printer device of Claim 10, wherein said Internet connection hardware and software uses TCP/IP protocols (please note column 3 lines 9-20).

Allowable Subject Matter

6. Claim 4-5 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The limitation of Microprocessor containing Ethernet MAC and system controller, and system controller include memory, DMA, interrupt and timers are not taught by the prior art.

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after

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the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Contact Information

- Any inquiry concerning this communication or earlier communications from the examiner should be directed to *Saeid Ebrahimi-Dehkordy* whose telephone number is (571) 272-7462.

The examiner can normally be reached on Monday through Friday from 8:00 a.m. to 5:30 p.m. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kimberly Williams, can be reached at (571) 272-7471.

Any response to this action should be mailed to:

Assistant Commissioner for Patents
Washington, D.C. 20231

Or faxed to:

(703) 872-9306, or (703) 308-9052 (for **formal** communications; please mark
"EXPEDITED PROCEDURE")

Or:

(703) 306-5406 (for **informal** or **draft** communications, please label
"PROPOSED" or "DRAFT")

Hand delivered responses should be brought to Knox building on 501 Dulany Street, Alexandria, VA.

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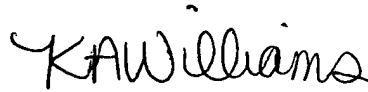
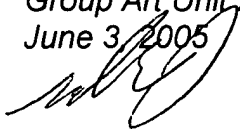
Any inquiry of a general nature or relating to the status of this application should be directed to the Group Receptionist whose telephone number is (703) 305-4750.

Saeid Ebrahimi-Dehkordy

Patent Examiner

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June 3, 2005



KIMBERLY WILLIAMS
SUPERVISORY PATENT EXAMINER